

10/019848  
531 Rec'd CTM 26 OCT 2001Claims

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1. A composition for an infant formula having a protein source which has a low threonine content and which comprises all of:
  - i) acid whey protein or sweet whey protein from which caseino-glyco-macropetide has been removed; and
  - ii) free arginine; and
  - iii) free histidine; and
  - iv) free tyrosine or free tryptophan or tryptophan rich milk protein or a mixture thereof.
2. A composition according to claim 1 wherein the protein source comprises less than about 8g threonine /16g  $\text{NH}_2$  Nitrogen .
- 15 3. A composition according to any preceding claim which comprises from about 9.0 to about 10.0 w/w% of protein.
4. A composition according to any preceding claim wherein the protein source comprises casein protein.
- 20 5. A composition according to claim 4 wherein the protein source comprises about 6% to about 50% by weight of whey protein and about 20% to about 40% casein protein.
- 25 6. A composition according to any preceding claim wherein the protein source is substantially free of lactose.
7. A composition according to any preceding claim wherein the protein source has less than 10% blocked lysine.
- 30 8. A composition according to any preceding claim wherein the protein source comprises hydrolysed protein.
9. A composition according to claim 8 in which the protein source comprises about 98.5% to about 97% by weight of hydrolysed sweet whey protein and about 1.5% to about 3% by weight of arginine, tyrosine, and histidine.

10. A composition according to any preceding claim which comprises about 0.1% to about 3% by weight of arginine; about 0.2% to about 1% by weight of tryptophan or tyrosine; and about 0.1 to about 1.5% by weight of histidine.

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11. A composition according to any preceding claim which comprises a lipid source, a carbohydrate source, and a protein source.

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12. A composition according to claim 11 wherein the lipid source includes medium chain triglycerides.

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13. A composition according to claim 11 or 12 wherein the carbohydrate source includes lactose.

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14. An infant formula which comprises a composition according to any preceding claim wherein the protein source comprises up to about 0.1% by weight histidine, about 0.1% to about 0.3% by weight arginine, and about 0.3 to about 0.5% by weight tryptophan.

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15. An infant formula which comprises a composition according to any one of claims 1 to 13 which wherein the protein source comprises about 0.2% to about 0.4% by weight histidine, about 1% to about 2% by weight arginine, and about 0.2% to about 0.4% by weight tryptophan.

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16. An infant formula which comprises a composition according to any one of claims 1 to 13 which the protein source comprises about 1% to about 1.5% by weight histidine, about 0.6% to about 0.9% by weight arginine, and about 0.3% to about 0.5% by weight tyrosine.

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17. An infant formula which comprises a composition according to any one of claims 1 to 13 which the protein source comprises about 0.2% to about 0.4% by weight histidine, about 1% to about 2% by weight arginine, and about 0.2% to about 0.4% by weight tyrosine.

18. A method of producing a composition according to any one of claims 1 to 13 which comprises the step of blending whey protein and casein protein

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together with free arginine; free histidine; and tyrosine or tryptophan rich milk protein or free tryptophan or a mixture thereof and homogenising the blended mixture.

5      19. Use of a composition according to any one of claims 1 to 13 <sup>for</sup> the manufacture of a medicament or nutritional product for addressing addressing the nutritional needs and providing healthy growth of an infant.

10     20. A method of addressing ~~addressing~~ the nutritional needs and providing healthy growth of an infant which comprises administering an effective amount of a composition according to any one of claims 1 to 13.